

1 What is claim d is:

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3 1. A receiver for receiving a channel signal having a modulated  
4 carrier for communicating first messages using a first  
5 spreading code and communicating second messages using a second  
6 spreading code, the receiver comprising,

7 a first replica spreading code generator providing a first  
8 replica spreading code,

9 a second replica spreading code generator providing a second  
10 replica spreading code,

11 a first despreader for despreading the channel signal into a  
12 first despread signal,

13 a second despreader for despreading the channel signal into  
14 a second despread signal,

15 a first carrier demodulator for carrier demodulating the first  
16 despread into first quadrature signals,

17 a first carrier demodulator for carrier demodulating the second  
18 despread into second quadrature signals,

19 a first power detector for detecting the power level of the  
20 first quadrature signal for providing a first power signal,

21 a second power detector for detecting the power level of the  
22 second quadrature signal for providing a first power signal,

23 a comparator for determining which one of the first or second  
24 power signal is present, and

25 a selector for selecting and providing the first  
26 quadrature signal when the first power signal is present or for  
27 selecting and providing the second quadrature signal when the  
28 second power signal is present, the first quadrature signal

communicating the first message when the first power signal is present, the second quadrature signal communicating the second message when the second power signal is present.

2. A communication system for broadcasting a channel signal, the system comprising,

a detection receiver for receiving a channel signal having a modulated carrier for communicating first messages using a first spreading code and communicating second messages using a second spreading code, the detection receiver comprising,

a first replica spreading code generator providing a first replica spreading code;

a second replica spreading code generator providing a second replica spreading code;

a first despreader for despreading the channel signal into a first despread signal;

a second despreader for despreading the channel signal into a second despread signal;

a first carrier demodulator for carrier demodulating the first despread into first quadrature signals;

a first carrier demodulator for carrier demodulating the second despread into second quadrature signals;

a first power detector for detecting the power level of the first quadrature signal for providing a first power signal,

a second power detector for detecting the power level of the second quadrature signal for providing a first power signal,

a comparator for determining which one of the first or second power signal is present; and

1 a selector for selecting and providing the first  
2 quadrature signal when the first power signal is present or for  
3 selecting and providing the second quadrature signal when the  
4 second power signal is present, the first quadrature signal  
5 communicating the first message when the first power signal is  
6 present, the second quadrature signal communicating the second  
7 message when the second power signal is present,

8 a data source for providing the first message during a  
9 first time period when the first power signal is present and  
10 for providing the second message during a second time period  
11 when the second power signal is present;

12 a code generator for generating an original first  
13 spreading code and an original second spreading code;

14 a spreader for spectrum spreading the first message by the  
15 original first spreading code and for spectrum spreading the  
16 second message by the original second spreading code, the first  
17 replica spreading code being a replica of the original first  
18 spreading code, the second replica spreading code being a  
19 replica of the original second spreading code, the first  
20 message and second message are spectrum spread into first and  
21 second spread spectrum signals; and

22 a transmitter for broadcasting the channel signal by  
23 modulating a carrier by the first spread spectrum signal during  
24 the first time period and by the second spread spectrum signal  
25 during the second time period,

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1 3. The system of claim 2 for selectively communicating the  
2 second message, the system further comprising,  
3 a first code receiver for receiving the first message  
4 during the first time period, the system communicating to the  
5 detection receiver and to the first code receiver during the  
6 first time period, the system selectively communicating to the  
7 detection receiver and not the first code receiver during the  
8 second time period.  
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10 4. The system of claim 3 further comprising,  
11 a plurality of detection receivers receiving the first and  
12 second messages.  
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14 5. The system of claim 3 further comprising  
15 a plurality of first code receiver for receiving the first  
16 messages.  
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18 6. The system of claim 3 wherein,  
19 the first and second codes are partially correlated.  
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